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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/772,715	02/05/2004	Akihiro Koyama	14434.42USD2	5612
7590 11/18/2005			EXAMINER	
HAMRE, SCHUMANO, MUELLER & LARSON, P.C.			BOLDEN, ELIZABETH A	
P.O. BOX 2902-0902 MINNEAPOLIS, MN 55402			ART UNIT	PAPER NUMBER
WIII THEAT OLD	WINNEAU OEID, WIN 33402		1755	
		DATE MAILED: 11/18/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/772,715	KOYAMA ET AL.			
		Examiner	Art Unit			
		Elizabeth A. Bolden	1755			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)	Responsive to communication(s) filed on <u>07 Se</u>	entember 2005				
·	This action is FINAL . 2b) ☐ This action is non-final.					
'—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
٠,۵	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
•	·					
	4)⊠ Claim(s) <u>18 and 19</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.					
	5) Claim(s) is/are allowed.					
· ·	6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to.					
	Claim(s) are subject to restriction and/or	election requirement				
		election requirement.				
Applicati	on Papers					
9)☐ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>05 August 2005</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) T*p529xbr declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	nder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) ☑ None of: 1. ☑ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2)	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	Paper No(s)/Mail Dat				

DETAILED ACTION

Priority

This application appears to be a division of Application No. 10/236,397 now Patent No. 6,831,030, filed 5 September 2002. A later application for a distinct or independent invention, carved out of a pending application and disclosing and claiming only subject matter disclosed in an earlier or parent application is known as a divisional application or "division." The divisional application should set forth the portion of the earlier disclosure that is germane to the invention as claimed in the divisional application. The first line of the specification should be amended to read:

This is a divisional of Application No. 10/236,397 filed 5 September 2001, now U.S. Patent 6,831,030.

Drawings

The drawings were received on 5 August 2005. These drawings are accepted by the Examiner.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

Claims 18 and 19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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Claims 18 and 19 are rejected under 35 U.S.C. 112, second paragraph, as being process claim with no clearly defined active process steps. See Ex. Parte Elrich, 3USPQ2d1011 (1987).

Examiner's Comment

The Examiner contacted Applicants' Representative via voice mail and fax proposing the following Examiner's Amendment to eliminate the above 112 rejections on 9 November 2005.

The Applicants' Representative was unable to accept the amendment at the time of this action.

18. (Proposed Examiner's Amendment) A method of manufacturing a soda-lime glass comprising zinc oxide and iron oxide (expressed as total iron oxide) wherein formation of nickel sulfide particles is suppressed in said glass, comprising adding a zinc compound to glass raw materials and melting said glass raw materials:

wherein the soda-lime glass is formulated by either:

decreasing a content of the zinc oxide within a range of 0.006 to 2.0 wt. % when the content of total iron oxide (in terms of Fe₂O₃) in a glass is increased with in the range of 0.005 wt. % to 0.06 wt. %, or

increasing the content of the zinc oxide within a range of 0.006 to 2.0 wt. % when the content of total iron oxide (in terms of Fe₂O₃) in a glass is increased with in the range of 0.005 wt. % to 0.06 wt. %:

thereby suppressing formation of nickel sulfide particles in the glass and whereby the soda-lime glass exhibits high transmittance with a visible light transmittance of 90.0% or higher on a basis of a 4.0 mm thick glass sheet.

19. (Proposed Examiner's Amendment) A method of manufacturing a soda-lime glass comprising zinc oxide and iron oxide (expressed as total iron oxide) wherein formation of nickel sulfide particles is suppressed in said glass, comprising adding a zinc compound to glass raw materials and melting said glass raw materials:

wherein the soda-lime glass is formulated by either:

decreasing a content of the zinc oxide within a range of 0.006 to 2.0 wt. % when the content of total iron oxide (in terms of Fe₂O₃) in a glass is increased with in the range of 0.005 wt. % to 0.02 wt. %, or

increasing the content of the zinc oxide within a range of 0.006 to 2.0 wt. % when the content of total iron oxide (in terms of Fe_2O_3) in a glass is increased with in the range of 0.005 wt. % to 0.02 wt. %:

thereby suppressing formation of nickel sulfide particles in the glass and whereby the soda-lime glass exhibits high transmittance with a visible light transmittance of 90.0% or higher on a basis of a 4.0 mm thick glass sheet.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elizabeth A. Bolden whose telephone number is 571-272-1363. The examiner can normally be reached on 9:30 am-6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on 571-272-1233. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

EAB

14 November 2005

KARL GROUP
PRIMARY EXAMINER